

### Shape and size : (Dimensions are in mm)

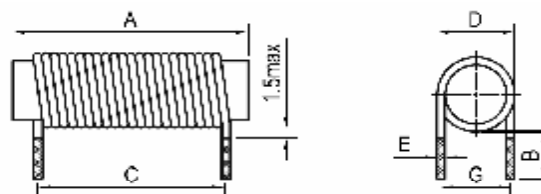


Figure 1: standard type

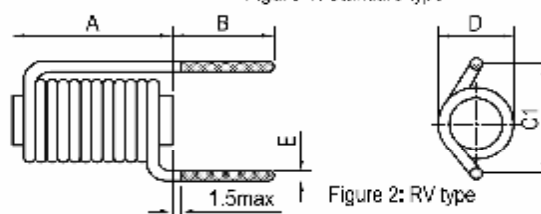


Figure 2: RV type

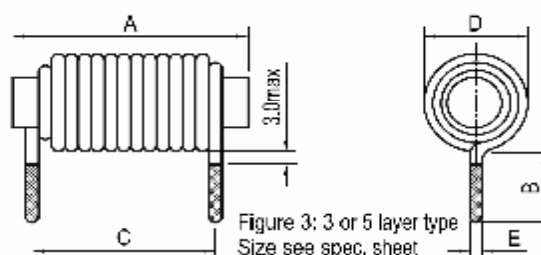


Figure 3: 3 or 5 layer type  
Size see spec. sheet

3L P/N	Fig1: standard type			Fig2
	A max	D max	C ref	C1 ref
FC0205	6.0	3.5	3.5	3.5
FC0310	11.0	5.0	7.5	5.0
FC0415	16.0	5.5	12.5	6.0
FC0520	21.0	7.0	15.0	8.0
FC0630	31.0	9.5	25.0	10.0

### Features :

- High saturation current .
- General purpose inductors .
- Low cost design .
- Tinplated leads .
- Varnish coated or UL tube.

### Inductance and rated current ranges :

· FC0205	1.0uH ~ 1.2uH	0.56A
· FC0310	1.8uH ~ 4.7uH	1.9 A ~ 0.76A
· FC0415	4.7uH ~ 10 uH	2.26 A ~ 1.0A
· FC0520	10 uH ~ 27 uH	2.65 A ~ 1.0A
· FC0630	4.7uH ~ 56uH	16.08A ~ 1.57A
· FC0525 / 0820 / 0828 / 0832 / 0840 / 1020 / 1025 / 1040	Please see the specification sheet.	

### Test equipments and test setup :

- L tested by LCR meter @ 1kHz .
- DCR tested by Milli-ohm meter .
- Electrical specifications at 25°C.

### Ordering information :

#### **FC 0520 - 100 K - 8RV - UL**

(1) (2) (3) (4) (5) (6)

- (1) Type : **Basic model high current choke .**
- (2) Style : Core **D=5 mm L=20 mm .**
- (3) Inductance : Example : **100** for **10 uH**
- (4) Inductance tolerance : **K : ±10% ; M: ± 20% .**
- (5) Shape: **8RV** is **8mm** length PIN and **Right wound** and **Vertical structure**; No code is normal type.
- (6) Sleeve:"**UL**": Black UL Tube; No code is no sleeve.

### Characteristics :

- Suggested rated current: copper wire current density about 8.0 A/mm<sup>2</sup>.
- Operating temperature : -20 °C to 80 °C .

### Applications :

- Power supplies .
- Power amplifiers .
- Noise filter for Switching regulators .
- SCR and Triac circuits .

Part No.	L @1KHz (uH)	DCR (Ohm) Max.	Suggested rated Current AC (A) Ref.	SRF (MHz) Min.	Wire Size (mm)	No. of Turns Ref.	Net Weight g/pcs
FC0205-1R0K	1.0	0.040	0.56	200	0.30	11.5	0.150
FC0205-1R2K	1.2	0.040	0.56	180	0.30	12.5	0.165
FC0310-1R8K	1.8	0.026	1.90	160	0.55	11.5	0.70
FC0310-2R2K	2.2	0.028	1.57	150	0.50	13.5	0.714
FC0310-2R7K	2.7	0.030	1.57	140	0.50	15.5	0.729
FC0310-3R3K	3.3	0.035	1.27	135	0.45	17.5	0.686
FC0310-3R9K	3.9	0.050	1.00	110	0.40	18.5	0.634
FC0310-4R7K	4.7	0.070	0.76	90	0.35	19.5	0.575
FC0415-4R7K	4.7	0.240	2.26	90	0.60	17.5	1.60
FC0415-5R6K	5.6	0.030	1.90	80	0.55	18.5	1.40
FC0415-6R8K	6.8	0.040	1.57	80	0.50	18.5	1.40
FC0415-8R2K	8.2	0.060	1.27	80	0.45	21.5	1.32
FC0415-100K	10	0.080	1.00	70	0.40	24.5	1.20
FC0520-100K	10	0.040	2.65	60	0.65	22.5	3.10
FC0520-120K	12	0.044	2.26	55	0.60	23.5	2.98
FC0520-150K	15	0.060	1.90	45	0.55	27.5	2.97
FC0520-180K	18	0.080	1.57	40	0.50	29.5	2.87
FC0520-220K	22	0.100	1.27	38	0.45	32.5	2.73
FC0520-270K	27	0.150	1.00	36	0.40	36.5	2.63
FC0630-4R7K	4.7	0.005	16.08	85	1.60	12.5	10.2
FC0630-5R6K	5.6	0.005	16.08	80	1.60	14.5	11.0
FC0630-6R8K	6.8	0.008	10.61	75	1.30	15.5	8.68
FC0630-8R2K	8.2	0.009	9.04	67	1.20	16.5	8.35
FC0630-100K	10	0.010	9.04	64	1.20	19.5	8.80
FC0630-120K	12	0.018	6.28	57	1.00	20.5	7.43
FC0630-150K	15	0.023	5.08	53	0.90	23.5	7.23
FC0630-180K	18	0.030	4.02	49	0.80	24.5	6.70
FC0630-220K	22	0.045	3.07	44	0.70	27.5	6.24
FC0630-270K	27	0.050	3.07	42	0.70	31.5	6.40
FC0630-330K	33	0.060	2.65	36	0.65	35.5	6.53
FC0630-390K	39	0.080	2.26	34	0.60	40.5	6.23
FC0630-470K	47	0.110	1.90	32	0.55	44.5	6.22
FC0630-560K	56	0.140	1.57	30	0.50	46.5	5.80

Part No.	L @1kHz (uH)	DCR (Ohm) Max.	SRF (MHz) Min.	I sat (A) Max.	Suggested rated Current AC (A) Ref.	Dimensions (mm)			
						A Max.	D Max.	C ±2.0	E ±0.10
FC0820-5R0N-3A	5.0	0.015	40	19	3.0	22.23	15.88	12.70	1.0
FC1025-100N-3A	10	0.081	25	17	3.0	28.58	15.88	17.45	1.0
FC0820-270N-3A	27	0.035	8	15	3.0	22.23	20.62	11.10	1.0
FC0525-500N-3A	50	0.050	5	12	3.0	28.58	20.62	19.05	1.0
FC0828-101N-3A	100	0.065	2.5	8	3.0	28.58	20.62	23.80	1.0
FC0832-151N-3A	150	0.075	2	5	3.0	34.93	20.62	26.97	1.0
FC0840-251N-3A	250	0.090	1	3	3.0	41.28	20.62	33.32	1.0
FC1020-5R0N-5A	5.0	0.012	30	20	5.0	22.23	16.62	19.05	1.3
FC0828-100N-5A	10	0.015	20	18	5.0	28.53	16.62	25.40	1.3
FC0820-270N-5A	27	0.025	7	15	5.0	22.23	22.23	14.27	1.3
FC1025-500N-5A	50	0.030	4	10	5.0	28.53	22.23	19.05	1.3
FC0828-680N-5A	68	0.035	3.5	9	5.0	28.53	22.23	22.23	1.3
FC1032-101N-5A	100	0.050	2.5	7	5.0	34.93	22.23	25.40	1.3
FC1040-151N-5A	150	0.060	2	5	5.0	41.28	22.23	31.75	1.3
FC1025-5R0N-10A	5.0	0.010	30	19	10	28.53	17.45	20.62	1.6
FC1032-100N-10A	10	0.012	20	17	10	34.93	17.45	30.94	1.6
FC1825-270N-10A	27	0.018	7	15	10	28.53	23.80	17.45	1.6
FC0832-500N-10A	50	0.025	4	9	10	34.93	23.80	23.80	1.6
FC1032-680N-10A	68	0.027	3.5	8	10	34.93	23.80	28.53	1.6
FC1040-101N-10A	100	0.030	2.5	6	10	41.28	23.80	33.32	1.6
FC1032-5R0N-15A	5.0	0.008	30	20	15	34.93	18.42	23.80	2.0
FC1040-100N-15A	10	0.010	20	17	15	42.85	18.42	38.10	2.0
FC0828-270N-15A	27	0.015	7	14	15	34.93	25.40	23.80	2.0
FC1035-500N-15A	50	0.020	4	9	15	41.28	25.40	28.53	2.0